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STATE OF COLORADO



1963

ANNUAL REPORT

DIVISION OF NATURAL RESOURCES

COAL MINE INSPECTION DEPARTMENT



STATE OF COLORADO



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LETTER OF TRANSMITTAL

April 1, 1964

To His Excellency  
John A. Love  
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Department, Division of Natural Resources of Colorado, for the year ending December 31, 1963.

Respectfully,

THOMAS ALLEN  
Chief Inspector Coal Mines

RICHARD T. ECKLES  
Coordinator, Division of Natural Resources

## THOMAS ALLEN, VETERAN CHIEF COAL MINE INSPECTOR RETIRES

Thomas Allen, EM, retired as Chief Coal Mine Inspector for the State of Colorado on December 31, 1963, after holding this office for 29 years and 2 months. This is the longest term of this office held by any Chief Inspector in this State.

During his first years of office, Mr. Allen made one continuous effort to advance stronger and more strict laws for the safety of men employed in coal mines, and for more modern methods of mining. He issued numerous directives as the Chief Inspector, as provided by law, which were observed in Colorado coal mines from 1936 until 1951 when the State Coal Mining Laws were revised to include the above directives in the Colorado Revised Statutes of 1953 in Chapter 92. Most of these laws are contained in the Federal Code for 1953.

Thomas Allen continually stressed the importance of safety training of all miners in Mine Rescue and Recovery work and First Aid training and with the belief that safety starts at home, sponsored first aid training for the women and children of coal miners. With the financial assistance of the State Board of Vocational Training, Mine Rescue training was given throughout the State, which proved its worth many times in conquering mine fires and restoring them for further production.

"Mr. Coal," as he is known in national coal mining organizations, has written many articles on modernization in coal mining operations, safety practices, combatting mine fires, and courses of study for Shot Firers and Coal Mine Officials. Mr. Allen assisted in establishing the course for coal mining engineers at the Colorado State School of Mines, by giving weekly lectures in 1948 and 1949.

In retirement, Mr. Allen expects to continue his writing and make a monthly contribution to a new mining publication in Chicago, Illinois, and act as a consulting engineer.

### OBITUARY

Thomas Allen, retired Chief Coal Mine Inspector, died from a heart attack at the Presbyterian Hospital on March 9, 1964. Survivors include his widow, Mary; a daughter, Mrs. Douglas Jorn of Hastings, Nebraska; two sons, Thomas, Jr., of Salt Lake City, Utah, and Robert of Palisade, Colorado; a sister, Mary of Croydon, Surrey, England; six grandchildren and seven great-grand children; also a step-daughter, Mrs. Marilyn Dobbins of Bernardsville, New Jersey.

## RETIREMENT OF J. J. RODDY, STATE INSPECTOR

After 25 years and 8 months as a field inspector for the State of Colorado, "Jack" Roddy retired on December 31, 1963. He resided in Grand Junction and covered Archuleta, Delta, Gunnison, La Plata, Mesa and Montrose counties.

Mr. Roddy was employed in Colorado coal mines for 53 years, starting as a miner at the New Castle Mine in 1910. He was certified as a Mine Foreman at the Cameo Mine in 1926, and was Superintendent of the Keystone Mine in 1936 until his certification as a Deputy Coal Mine Inspector in October, 1937.

Mr. Roddy was always active in safety work, with vast experience in mine rescue and recovery work at mine fires and after explosions. His work as a first aid team member and instructor continued throughout the years he was associated with coal mines.

Mr. and Mrs. Roddy plan an active retirement in travel and developing their summer cabin on the Fryingpan in Pitkin County. Jack is an ardent hunter and fisherman.

A congratulatory certificate of appreciation for long and faithful service to the State was presented to Mr. Roddy by John A. Love, Governor of Colorado.



PERSONNEL OF DEPARTMENT

CHIEF COAL MINE INSPECTOR - THOMAS ALLEN

Office - 318 State Services Building  
Denver, Colorado 80203  
Telephone - 222-9911  
Ext. 2616  
Home - 1285 Albion Street  
Denver, Colorado 80220  
Telephone 377-5572

DISTRICT INSPECTORS - (Counties within each district)

Dist. #1 - DONALD HASKE - 4561 Perry St., Denver, Colorado 80212  
Telephone - 477-9295  
(El Paso, Fremont (16), Jackson and Weld)  
Dist. #2 - OSCAR T. RICE - 919 Tascosa, Trinidad, Colorado  
Telephone - Trinidad 846-2634  
(Huerfano, Las Animas and Fremont (9) )  
Dist. #3 - GRANT McCONNELL - P.O. Box 376, New Castle, Colo. 81647  
Telephone - New Castle 984-2370  
(Garfield, Moffat, Pitkin, Rio Blanco and Routt)  
Dist. #4 - JOHN J. RODDY - 1404 White Avenue, Grand Junction, Colo.  
Telephone - Grand Junction 242-5915  
(Delta, Gunnison, La Plata, Mesa and Montrose)

GENERAL OFFICE

Sr. Administrative Assistant . . . .	Veda Burford 720 Jersey St., Denver, Colo. 80220 Telephone 377-4317
Sr. Account Clerk . . . . .	Evelyn Miller 3357 W. 36th Avenue
Clerk-Stenographer . . . . .	Jo Anne M. Osborn 5230 Stuart Street
Intermediate Clerk-Typist . . . .	Marjorie T. Sutton 1203 South High Street

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Thomas Allen, Chief Inspector - Denver 80203  
Niles E. Grosvenor, E. M., Secretary, Golden  
Frank Kolar, Jr., 2028 W. 9th Street, Longmont  
Mathew J. Mlakar, P.O. Box 271, Somerset  
Robert L. Plum, P.O. Box 11, Glenwood Springs - (4-24-63)



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CHIEF COAL MINE INSPECTOR

DONALD HASKE - Certified 2-17-64

4561 Perry Street, Denver, Colorado 80212

Telephone - 477-9295

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STATE COAL MINE INSPECTOR - DISTRICT

J. ARTHUR HASKE - Certified 3-16-64

## INTRODUCTORY COMMENTS

BRIGHT FUTURE FOR COAL - In 1963 there was an increase in production of 314,850 tons of coal over 1962, with a total of 3,707,440 tons. A total of 104 mines in 1963, employed an average of 201 less men than in 1962, who worked an average of 10 less days per mine than in the previous year; but there was an increase of 2 tons of coal mined per miner, per day.

The coal production in 1963 was the highest since 1951, which was the lowest tonnage since 1889. The peak production in Colorado coal mines during 100 years - from 1864 to date was in 1918, with a daily production per miner of 5.2 tons. In 1963 the daily production per miner was 16 tons.

The present increase in tonnage is largely from the strip pit mines in Routt County, the Energy and the Edna, which ship their entire production directly by rail to Denver. Contracts totalling \$65 million for the mining of around 12 million tons of coal during the next 15 years will be delivered to the Public Service Company generating plants in the Denver area. There was also a marked increase in the production of coking coal to the steel mills of the C. F. & I. Corp. in Pueblo and of the Columbia-Geneva Division of the U.S. Steel Corp. in Utah.

The Energy strip mine operated by the Energy Coal Company, a subsidiary of the Morgan Coal Company, of Indianapolis, Indiana, is located near Steamboat Springs. They started production in Nov., 1962 and in 1963 completed installations for one of the most modern surface coal mines in the United States.

The Edna strip mine at Oak Creek was purchased from the Edna Coal Company by the Pittsburg and Midway Coal Company, a subsidiary of the Spencer Chemical Co. of Kansas City, Missouri, on September 21, 1961. The Edna Coal Company also sold the Navajo Strip Mine in Montrose County to the Peabody Coal Company of St. Louis, Mo., on September 15, 1963. The name of the mine will be changed to the Nucla Strip in 1964.

The Peabody Coal Company has a contract to supply coal for the new REA power plant being constructed near Hayden, Colorado in Routt County, which is intended to supply power for the REA network in Northwestern Colorado and adjoining states.

ACCIDENTS REDUCED - Only one fatality occurred in 1963, which is the best record since 1957 which was the only year in the history of our State when we had no fatalities, from November 3, 1956 to February 2, 1958.

NEW HEAD OF NATURAL RESOURCES - Richard T. Eckles of Monte Vista, Colorado, was appointed coordinator for the Division of Natural Resources by Governor John A. Love, effective August 15, 1963.

DIRECTIVES BY THOMAS ALLEN

1. Prohibition of coal mines being used for fall-out shelters, for the safety of persons and animals. 2-20-63.
2. Approval for use of water cartridge stemming, approved by the U.S. Bureau of Mines. 8-28-63.
3. Approval for the use of ammonium nitrates as explosives in strip pit mines, to be governed by rulings of the U.S. Bureau of Mines.
4. Strip pit mines - Spoil banks are to be rounded off to as smooth a contour as possible, within the close proximity of the working operation. 10-8-63.

STRIP PIT REGULATIONS - On June 4, 1963, a meeting was called by Chief Inspector Thomas Allen, of underground and strip operators, operators' associations, U.S. Bureau of Mines, U.M.W. of A., State Land Board, representatives of powder companies, and the State Coal Mine Inspectors, to discuss formulating a separate State Code for surface mines.

A committee composed of 5 men was selected to make an extensive study of stripping rules from other states and the Federal code, in comparison with the existing State Laws. The committee of E. E. Quenon of Peabody Coal Co., Chairman; Lloyd J. Beer, Beer Coal and Const. Co., Fremont County; W. W. Brown, Edna Coal Co., Montrose County; George Hays, P. & M. Coal Mining Co., Routt County; and Miller Spears, Energy Coal Co. of Indianapolis, Indiana, made recommendations to the Chief Inspector which have been under consideration.

Tentative regulations for strip pit mining will be issued in the early part of 1964 for a trial period before being presented to the State Legislature for approval.

MINE FIRES - The Black Raven Mine in Garfield County reported a fire on May 27, which was promptly investigated and as it was impossible to fight the fire direct, immediate plans were made to seal off

the fire area. State Inspectors McConnell and Haske made daily inspections and after various attempts were made to restore the return air course, the fire increased and the gas content behind the seals increased, and due to the lack of workmen to perform the necessary work to recover the mine, Federal Inspector Reay and Mr. Lindeman of the U. S. G. S. concurred in the opinion that the mine be permanently sealed in September.

During the year frequent checks were made of old fire reoccurrences at the Streeter, Sterling and Washington mines.

GAS IGNITION - At 8:30 A. M. on November 11, the ignition of an accumulation of gas burned 9 men, 4 of which were compensable injuries losing 9, 10, 12 and 13 days; fortunately, of the other 5 men, one man returned to work the same day and the other 4 returned to work within 2 days.

State Inspectors Haske and McConnel and Federal Inspectors Roberts and Ratliff investigated all conditions and posted a closure order until the investigation was completed on November 16. The conclusions were that: (1). The line brattice was installed too close to the rib and with 71,000 cfm in the section, it is possible that the brattice was pushed against the rib or the end flap was installed loosely and sealed off the return side of the brattice. (2). Methane gas had accumulated in the face area after the unit foreman had made his examination a short time before, or which was not detected. (3). After checking all equipment and found to be in a permissible condition, it is believed that the source of ignition was the tungston carbide bits of the mining machine coming in contact with some hard, brittle rock that had fallen from the roof, causing sparks which ignited the gas mixture.

RECOMMENDATIONS FOR FUTURE PRECAUTIONS: (1). That examination of face areas for gas and all other conditions pertaining to safety, shall be made at more frequent intervals and more thoroughly. (2). Line brattice shall be installed and maintained with at least three feet clearance between the ribs and the closest contact with the line brattice.

MAP PROJECT APPROVED BY STATE LEGISLATURE - The Forty-Fourth General Assembly of Colorado in 1963 appropriated the sum of \$9,000 to be paid to the Colorado School of Mines Foundation for the compilation and preparation of maps relating to coal reserves in



Colorado, showing the worked-out areas and location of mines worked from 1883 to date.

A contract signed by Thomas Allen, Chief Coal Mine Inspector and Orlo E. Childs, President of the State School of Mines was approved by Governor John A. Love, E. G. Spurlin, State Controller, Louis S. Middlemist, State Purchasing Agent and Frank E. Hickey, Deputy Attorney General.

The assembly work of reference to the maps on file in this office, started without delay, being done by the engineering students under the supervision of Prof. Niles E. Grosvenor, E.M. The maps to be suitable for reproduction are to be completed by June 30, 1964, and are well under way at this time.

The information on these maps will be invaluable to research groups and to the numerous and frequent requests to consult our records and maps for future developments.

#### HONOR ROLL FOR 1963 - 50,000 or more man-hours per injury.

<u>Mine</u>	<u>Company</u>	<u>County</u>	<u>Fatal</u>	<u>Non-Fatal</u>	<u>Man-Hours Per Injury</u>
Allen	C. F. & I. Corp.	Las A.	0	4	172,830
Eagle	Imperial Coal Co.	Weld	0	1	92,485
Edna Strip	P. & M. Coal Co.	Routt	0	1	90,478
Somerset	Columbia-Geneva Div.	Gunn.	0	2	86,877
	U.S. Steel Corp.				
Energy Strip	Energy Coal Co.	Routt	0	0	53,546

#### HONORABLE MENTION - 20,000 to 50,000 man-hours per injury.

Sterling	McNeil Coal Corp.	Weld	0	0	47,436
Lincoln	Clayton Coal Co.	Weld	0	1	44,615
Washington	Clayton Coal Co.	Weld	0	3	29,248
Pioneer Canon	The Corley Co.	Fremont	0	1	28,698
Calumet #2	Delcarbon Coal Co.	Huerf.	0	1	24,024
Dutch Creek	Mid-Continent C. & C.	Pitkin	0	6	21,863
Nucla Strip	Edna & Peabody Coal	Montrose	0	0	20,137

## SUMMARY OF FIELD WORK

Number of inspections	509
Number of check inspections	113
Examinations for Shot Firer	28
Serious accidents investigated	12
Complaints investigated	26
Mines closed for legal violations & non-compliance with recommendations made	13
Suspension of officials' certificates	4
Checks on mine fires - Reoccurrences	18
Investigations-gas ignition-explosion	1

## FINANCIAL STATEMENT FOR CALENDAR YEAR

1963

### RECEIPTS

Coal Tax	\$24,751.18	
License Fees	5,040.00	
Law Books Sold	29.00	
Misc. - Including sale of old Equipment	506.14	
General Fund Appropriation	<u>47,954.18</u>	
Total		\$78,280.50

### EXPENDITURES

Salaries - Field & Office	66,282.80	
Travel - Hotels, Meals, Gasoline, etc.	4,198.26	
Equipment - Field & Office	1,758.80	
Workmen's Compensation	1,455.00	
Supplies - Field & Office	467.84	
Telephone & Telegraph	422.30	
Postage	355.00	
Maintenance & Repair of Equipment	328.14	
Printing	307.01	
Insurance - Cars & Equipment	173.15	
Garage Rent - Field & Office	120.20	
Surety Bonds	105.00	
Moving - Office	11.00	
Map Project	<u>2,296.00</u>	
Total		\$78,280.50



# GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1963

<u>MINES REPORTING PRODUCTION</u>			Strip	104
<u>PRODUCTION IN SHORT TONS</u>				
-	Mechanized	73, Pick	22, Strip	9
		Increase -	314,870	3,707,440

<u>GRADES</u>	<u>SIZES</u>		Strip	104
Bituminous	2, 876, 172	Mine Run	1, 140, 923	
Sub-Bituminous	831, 268	Lump	155, 161	836, 285
		Nut	48, 369	1, 397, 849
		Egg	86, 628	42, 225
			Miscellaneous	

<u>TONNAGE BY MINING METHODS</u>		
MINED BY	- Electric undercutting machines	757, 896
	Solid pick	142, 593
LOADED BY	- Mechanically, using no or very little hand labor	693, 271
	Hand-loaded onto mechanical loaders	163, 180
	Hand-loaded into pit cars	44, 038
CUT AND LOADED BY CONTINUOUS MINING MACHINES		1, 950, 383
STRIPPED - OPEN PITS (9)		856, 568

<u>SHIPMENT AND DISPOSAL</u>		<u>Direct to Power Plant by Conveyor</u>	
Shipped by rail	2, 754, 571	<u>Cameo to Public Service</u> 63, 882	
Shipped by truck	882, 041		
Used for power and heat at the mines - 6, 946		Shipped out of State - 290, 865	
<u>MEN EMPLOYED</u> (Average number)		Underground - 1, 019	Surface - 266 Strip - 108
<u>DAYS WORKED</u> (Average number per mine)		1, 393 162	

DAILY PRODUCTION PER MINER					16
DAILY CAPACITY OF ALL MINES (as reported)					29, 907
UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT	- See pages	24 & 25			
MINING MACHINERY	- Electric Undercutting	162	Electric Drills	221	
	Electric Shearing	1	Compressed air drills	18	
	Combination cutting & shearing	12	Stoppers	8	
MECHANICAL LOADERS	- Shakers	94	Mainline conveyors	28	
	Mobile	75	Chain conveyors	19	
	Power shovels	1	Portable conveyors	6	
CONTINUOUS MINING MACHINES	- 25				

HAULAGE MACHINERY - Locomotives: Electric Trolley 80 Electric Battery 37  
 Hoists : Electric 97 Compressed Air 3  
 Shuttle Cars 119

LAMPS: Flame Safety 435 Electric Cap 3,315

STRIP MACHINERY & EQUIPMENT

Bulldozers	15	Drag lines	8	Motor graders	1
Caterpillars	6	Jackhammers	5	Scarifiers	3
Compressors	11	Drills	10	Tractors	4
Loaders	5	Power shovels	6	Trucks to tippie	20

EXPLOSIVES (Pounds)

Permissible	Dynamite	Cardox	Airdox	Others (Misc.)	Ammonium Nitrate	Totals
Underground	266,203	-	7 Mines	4 Mines		266,203
Strip Pits	1,100	207,750				2,512,240
Totals	267,303	207,750		1,500	2,301,890	2,778,443

SURFACE & MISCELLANEOUS

Hoists:	Gas	8	Steam	2	Electric	46
Tipple:	Gravity	35	Mechanical	56		
Ventilation fans:	Exhaust	60	Force	24		
Coal washing plants		4	Steam Plants	8	Box Car Loaders	23
Pumps:	Electric	196	Compressed air	6	Bath Houses	21 Showers 313
Air Compressors:	Underground	37	Surface	33	Rock Dusting Machines	52
Telephones		161			Battery charging stations	25
Gravity Planes		2			Aerial Trams	1

SAFETY EQUIPMENT

Self-Rescuers	450	Oxygen breathing apparatus:	McCa	14
Inhalators	28	Gas Masks	24	Chemox

GENERAL INFORMATION (As Reported)

Shaft Mines	5	Rock slopes	13	Rock tunnels	3	Drifts	58
Number of Mines		On railroads	19	Roof-bolted	9	Coal slopes	43
Tons of coal chemically treated	249,130	Tons of washed coal	124,274				

ACCIDENTS - (See page 26)

Total number:	Fatalities	1	Dependents:	Wives	1
	Non-Fatals	70		Minor Children	5

# D I R E C T O R Y

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
A. B. C. Coal	Walsenburg	Bert's	Same	Huerfano
Alvidrez & Sons	Florence	Black Knight #4	"	Fremont
Annex Coal	"	Annex #2	"	"
Annex Coal	"	Annex #2 Strip	"	"
Baldy Coal	Trinidad	Baldy #2	"	Las A.
Barstow, Aul & Peterson	Palisade	Blue Flame	Same	Mesa
Bear Coal	Somerset	Bear	"	Gunnison
Beer Coal & Const., Inc.	Florence	Beer Strip	"	Fremont
Bendetti, H. & L.	Glenwood Spgs.	New South Canon	"	Garfield
Berwind Coal	Trinidad	Berwind Canyon	"	Las A.
Bisulco Partners	Aguilar	Bisulco	Same	Las A.
Black Beauty Coal	Walsenburg	Black Beauty	"	Huerfano
Blue Ribbon Coal	Cedaredge	Blue Ribbon	"	Delta
Boulder Valley Coal	Denver (2)	Boulder Valley #3	Dacono	Weld
Bowman Coal	Trinidad	Bowman's	Same	Las A.
Bradley Bros. Ent.	Rifle	Harvey Gap #3	Same	Garfield
Brodhead Coal	Trinidad	Brodhead #4-A	"	Las A.
C. F. & I. Corp.	Denver (2)	Allen, E. & W. Port.	Weston	"
Can. Blk. Diam. Coal	Florence	Can. Blk. Diam.	Same	Fremont
Canon Liberty Coal	Canon City	Canon Liberty #3	"	"
Canon Monarch Coal	Florence	Canon Monarch #4	Same	Fremont
Canon National Coal	"	Canon National	"	"
Canon Oak Creek Coal	Canon City	Canon Oak Crk. #2	"	"
Carestia, Ralph	Florence	Carestia Strip	"	"
Cedar Canon Coal	"	Cedar Canon	"	"
Champion Coal Mng.	Somerset	Hawk's Nest	Same	Gunnison
Clayton Coal	Denver (2)	Lincoln	Erie	Weld
Clayton Coal	"	Washington	"	"
Coal Canyon, Inc.	Grand Jct.	Coal Can. Strip	Same	Mesa
Coal Crk. Can. Mng.	Canon City	Coal Creek Canon	"	Fremont
Colowyo Coal	Denver (2)	Red Wing	Craig	Moffat

## RAILROADS - OPENINGS - SEAMS

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch
			Depth	Slope	Tunnel				
				Length					$\frac{\circ}{\%}$
Albert Amiday, Sr.		10		110			2	8	
Casimiro Alvidrez		25					6		
Nickie Rocchio		50				Yes	5	6	1%
Nickie Rocchio		50		STRIP			6		
D. A. Johnson		6				Yes	5		
Willis S. Barstow		35				Yes	5	6	3%
William A. Bear	D&RG	675			300		8		
Lloyd J. Beer		125		STRIP			4	6	7%
Henry Bendetti		25			30		5		54-57°
Fred Ortiz		8		200			4	6	8°
Sam Gonzales		50				Yes	4		
Mariano Pesina		20		1,000			4		
Melvin Moore		50				Yes	6		
Tom Harris	U. P.	1,000	245				7		
John Bowman		4				Yes	2	10	
Robert Bradley		15				Yes	7		45°
Sam Vasquez		15					3	10	3%
L. W. Ingles	C&W	5,000		1,578(E)		Yes(W)	5		2-30%
Frank Yellico		100					6	7	6%
Frank Adamic		25				Yes	3	4	6%
Lloyd J. Beer		150				Yes	5	4	10%
Raymond Jermance		50		1,400			5	6	10%
J. E. Griffin		6					3	6	3°
Ralph Carestia		50		STRIP			4	4	5%
Charles Farrington		100				Yes	6		2%
Ralph Audin		300		300			7		
William Ferguson	U. P.	1,500		1,800			8		
William Ferguson	U. P.	1,200	430				8		
Howard U. Motz		40		STRIP			6	8	15%
John A. Javernick		40				Yes	4	6	6%
J. Arthur Haske		900		125			23		3-6%



COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Columbia-Geneva Div.	Dragerton, Utah	Somerset	Somerset	Gunnison
U. S. Steel Corp.	San Francisco, Cal.			
Corley Co., The	Colorado Spgs.	Corley Strip	Florence	Fremont
Corley Co., The	"	Pioneer Can. #2 & 3	"	"
Delcarbon Coal	Walsenburg	Calumet #2	Same	Huerfano
Double Dick Coal	Florence	Double Dick	Same	Fremont
Dry Creek Coal	Hayden	Cardinal	"	Routt
Eagle Head Coal	Grand Jct.	McGinley	"	Mesa
Ellis Coal	Somerset	Black Beauty	"	Gunnison
Emmons Bros. Coal	Paonia	Emmons	"	Delta
Energy Coal	Indnpls., Ind.	Energy Strip	Stmbt. Spgs.	Routt
Fogg, Lyndon H.	Cedaredge	Red Canon #1	Same	Delta
Fontanari, R. & A.	Clifton	Go-Boy	"	Mesa
Four Mile Coal, Inc.	Glenwood Spgs.	Four Mile	"	Garfield
Franceville Coal	Colorado Spgs.	Franceville Strip	"	El Paso
Garcia, Pete	Boncarbo	Pete's	Same	Las A.
Golden Quality Coal	Canon City	Golden Quality #4	"	Fremont
Green Valley Coal	Cedaredge	Green Valley #2	"	Delta
Grey Creek Coal	Trinidad	Grey Creek #4	"	Las A.
Guadagnoli Bros.	"	Engleville	"	"
Haas, William, Jr.	Rifle	Black Raven	Same	Garfield
Hay Gulch Coal	Hesperus	Hay Gulch #2	"	La Plata
Hayden Coal	Hayden	Babson	"	Routt
Hesperus Coal	Hesperus	Hesperus #4	"	La Plata
Imperial Coal	Denver (2)	Eagle	Erie	Weld
Imperial Coal	Denver (2)	Imperial	Erie	Weld
Iuppa, Albert & Son	Trinidad	Starkville #4	Same	Las A.
Jenkins & Mathis	Meeker	Rienau	"	Rio Bl.
Juanita Coal & Coke	Bowie	King	"	Delta
Kerr Coal	Cameo	Cameo	"	Mesa

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch
			Depth	Slope	Tunnel Length				% - °
A. M. Morrison	D&RG	996					(B-25 C- 7		4-7%
Thomas E. Shelnut		400		STRIP			3	7	8%
Thomas E. Shelnut		600				Yes	6		8%
George Sudar	D&RG	100		700			4	2	4%
Joe Rohar		100					6		
E. R. Todd		400				Yes	12		7%
Lawrence O. Downing		15				Yes	11		3%
Ellis Axelson		80				Yes	10	6	
John T. Emmons		30				Yes	8	10	4%
Gerald R. Jones	D&RG	3,000		STRIP			8		10%
Lyndon H. Fogg		30		350			4	6	6%
R. Fontanari		20				Yes	6		3%
C. A. Betz		20		350			8		42°
L. F. Gordley		50		STRIP			6	3	
Pete Garcia		2				Yes	5		
Dominic Carestia		100				Yes	6	6	3%
D. Gail Brooks		50		250			6		3°
Lawrence Rivera		8				Yes	3	6	3%
Chas. Guadagnoli		10				Yes	9		
Wm. Haas, Jr.		15				Yes	22		57%
Wm. C. Hunt		7				Yes	6	6	10°
S. J. Prewitt		15				Yes	10	6	14%
Joe De Luzio		15				Yes	9	1	4°
Frank Kolar	U. P.	1,500	370				9		1½%
Frank Kolar	U. P.	900	300				10	6	
Albert Iuppa, Jr.		13		300			5		
Wm. Jenkins, Jr.		30				Yes	20		18°
Robert F. Bowie	D&RG	300					16		7%
H. J. Kissell	D&RG	300			950	Yes	6		3°

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
King Coal	Hesperus	King	Same	La Plata
Last Chance Coal	Canon City	Last Chance	"	Fremont
Lobato, Fidel	Durango	Blue Flame	"	La Plata
Martinez, Albert	Cokedale	Martinez	"	Las A.
Maschio Coal	Raton, N. M.	Hastings #3	Trinidad	"
Mathews, John	Oak Creek	Johnnie's	Same	Routt
McNeil Coal Corp.	Denver (2)	Sterling	Dacono	Weld
Mid-Continent C. & C.	Carbondale	Dutch Creek	Same	Pitkin
Montoya Coal	Trinidad	Aguilar-Imperial	"	Las A.
Morning Glory Coal	Walsenburg	Morning Glory	"	Huerfano
Moschetti, N. J.	Canon City	Canon Zenith #2	Same	Fremont
Nichols, B. A. & W. B.	Fruita	Hunter	"	Mesa
North Fork Coal	Denver (2)	Edwards	Somerset	Gunnison
Nu-Mine Coal	Gunnison	Nu-Mine #2	Same	"
P & M Coal Mng.	Kansas City, Mo.	Edna Strip	Oak Creek	Routt
Pantazes, Pete	Aguilar	Prosperity #2	Same	Las A.
Peabody Coal (Edna)	St. Louis, Mo.	Navajo Strip	Nucla	Montrose
Peacock Coal	Durango	Peacock	Same	La Plata
Peacock Coal	Trinidad	Peacock	"	Las A.
Phillips, H. B.	Palisade	Gearhart	"	Mesa
Pilcher, Oren A.	Mancos	Burnwell #1	Same	La Plata
Pilcher, Oren A.	"	Burnwell #2	"	"
Pilcher, Oren A.	"	Coal King #2	"	"
Red Ash Coal	Walsenburg	Maitland #2	"	Huerfano
Rex Carbon Fuel	Florence	Rex Carbon	"	Fremont
Routt Mining Corp.	Oak Creek	Keystone	Same	Routt
Silengo Coal	Craig	Wise Hill #3	"	Moffat
Skinner Coal	Walsenburg	Gordon	"	Huerfano
Smith, A. G.	Gunnison	Baldwin	"	Gunnison
Sonchar Coal	Ration, N. M.	Delagua #4	Delagua	Las A.



Superintendent	R. R.	Daily Cap.	O P E N I N G S				S E A M		
			Shaft Depth	Rock Slope	Rock Tunnel Length	Drift	Ft.	In.	Pitch % - °
Irvin A. Smith		30				Yes	7		5%
Steve Kopic		40				Yes	6		
Fidel Lobato		10				Yes	6	2	2%
Albert Martinez		2					2	4	
Adolph Maschio		16				Yes	7	3	6-8°
John Mathews		5				Yes	4		4½°
A. W. Newcomb	U. P.	550	358				7	11	
Ed Selan	D&RG	2,000					6	8	14°
Milton Montoya		15				Yes	5	6	
G. M. Turner	D&RG	175				Yes	4	6	
N. J. Moschetti		15					3	6	6%
Bryan A. Nichols		10				Yes	7		
Luther Baughman	D&RG	150				Yes	6		
Joseph E. Partch		150				Yes	6		3%
George A. Hays	D&RG	3,500		STRIP			6		10%
Pete Pantazes		4				Yes	2	6	7°
A. R. Ross		500		STRIP			5	6	5%
G. M. Gale		10				Yes	6		3%
Eugene Lopez		25				Yes	6		
H. B. Phillips		30				Yes	5	3	12%
Oren A. Pilcher		35				Yes	6	6	
Oren A. Pilcher		15				Yes	6	6	
Oren A. Pilcher		10				Yes	6	6	
Clarence Clair		70				Yes	3	6	5%
Frank Sacchetta		80					3	10	12%
Carl M. Steele	D&RG	50					5	10	
Charles Silengo		220				Yes	16		15%
Frank Zubal	D&RG	100					4		
A. G. Smith		15				Yes	6		
Joe Sonchar, Jr.		40				Yes	5		1%

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Staley-Gordon Coal, Inc.	Rangely	White River	Same	Rio Bl.
Staples, S. L., Jr.	Gunnison	Ohio Creek #2	"	Gunnison
States Coal	Cedaredge	Top	"	Delta
Sullivan Coal	Oak Creek	Apex	"	Routt
Sun Coal	Hayden	Sun	"	"
Supancic Coal	Cameo	Roadside	Same	Mesa
Thompson Crk. C&C Corp.	Denver (3)	Thompson Crk. #1	Carbondale	Pitkin
"	"	Thompson Crk. #2	"	"
"	"	Thompson Crk. #3	"	"
Twin Pines Coal	Canon City	Twin Pines	Same	Fremont
Vento Coal	Florence	Vento	Same	Fremont
Victory Coal	Durango	Victory #3	"	La Plata
Zellitti, F. Jr., N. & C.	Durango	Morning Star	"	" "

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel				
				Length					
Conrad Staley		30				Yes	7	10	12%
S. L. Staples, Jr.		9				Yes	5		5%
Welland W. States		60				Yes	7		6%
Robert L. Sullivan		10				Yes	4	6	7%
Thomas E. Barton		1				Yes	6		15°
Louis Supancic		25				Yes	6		5%
Andrew Allan		500				Yes	8		30°
Andrew Allan		125				Yes	7		30°
Andrew Allan		250				Yes	9		30°
Budgie C. Fazzino		70				Yes	5	6	4%
Tony Vento		100				Yes	5	8	7%
Fred Forbidussi		100				Yes	6		
Frank Zellitti, Jr.		25				Yes	5	10	

# REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

COUNTY	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS Fatal Non-Fat.
MINE					
DELTA					
Blue Ribbon	Blue Ribbon Coal	4	50	625	1
Emmons	Emmons Brothers Coal	5	186	4,670	
Green Valley #2	Green Valley Coal	5	186	6,815	
King	Juanita Coal & Coke	21	74	17,019	
Red Canon #1	Lyndon H. Fogg	3	241	4,208	
Top	States Coal	3	126	1,706	
TOTALS - 6		41	863	35,043	1
EL PASO					
Franceville Strip	Franceville Coal	2	84	1,207	
TOTALS - 1		2	84	1,207	-
FREMONT					
Annex #2	Annex Coal	2	20	1,035	
Annex #2 Strip	Annex Coal	2	223	11,130	
Beer Strip	Beer Coal & Construction, Inc.	4	222	20,520	
Black Knight #4	Alvidrez & Sons	3	311	6,699	2
Canon Black Diamond	Canon Black Diamond Coal	6	233	36,776	
Canon Liberty #3	Canon Liberty Coal	4	244	7,056	
Canon Monarch #4	Canon Monarch Coal	5	230	16,805	1
Canon National	Canon National Coal	2	174	8,475	
Canon Oak Creek #2	Canon Oak Creek Coal	2	19	128	
Canon Zenith #2	N. J. Moschetti	4	224	3,793	1
Carestia Strip	Ralph Carestia	2	26	945	
Cedar Canon	Cedar Canon Coal	6	233	16,466	1
Coal Creek Canon	Coal Creek Canon Mining	4	247	8,533	1
Corley Strip	Corley Company, The	3	3	1,200	
Double Dick	Double Dick Coal	4	206	6,677	

Golden Quality #4	Golden Quality Coal	4	282	21,980	1
Last Chance	Last Chance Coal	3	300	12,130	1
Pioneer Canon #2 & #3	Corley Company, The	17	182	83,893	1
Rex Carbon	Rex Carbon Fuel	6	228	13,900	
Twin Pines	Twin Pines Coal	6	245	17,805	
Vento	Vento Coal	9	245	26,441	1
TOTALS - 22		98	4,097	322,387	10
<u>GARFIELD</u>					
Black Raven (Clsd.)	William Haas, Jr.	4	94	1,257	
Four Mile	Four Mile Coal, Inc.	2	291	2,530	
Harvey Gap #3	Bradley Brothers Enterprise	4	62	283	
New South Canon	Henry & Louis Bendetti	4	271	4,480	1
TOTALS - 4		14	718	8,550	1
<u>GUNNISON</u>					
Baldwin	A. G. Smith	2	199	1,430	
Bear	Bear Coal	22	127	59,518	2
Black Beauty	Ellis Coal	6	163	11,031	
Edwards	North Fork Coal	11	52	6,531	
Hawk's Nest	Champion Coal Mining	14	131	17,611	
Nu-Mine #2	Nu-Mine Coal	8	204	15,203	1
Ohio Creek #2	S. L. Staples, Jr.	2	218	1,982	
Somerset	Columbia-Geneva Div. U. S.				
	Steel Corp.	95	233	49,932	2
TOTALS - 8		160	1,327	163,238	5
<u>HUERFANO</u>					
Bert's #2	A B C Coal	2	67	686	
Black Beauty	Black Beauty Coal	3	81	419	
Calumet #2	Delcarbon Coal	19	160	14,796	1
Gordon	Skinner Coal	4	219	6,045	
Maitland #2	Red Ash Coal	11	191	12,648	1
Morning Glory	Morning Glory Coal	8	201	9,138	2
TOTALS - 6		47	919	43,732	4



COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
LA PLATA						
Blue Flame	Fidel Lobato	2	150	892		
Burnwell #1	Oren A. Pilcher	4	212	5,605		
Burnwell #2	Oren A. Pilcher	2	59	664		
Coal King #2	Oren A. Pilcher	1	25	150		
Hay Gulch #2	Hay Gulch Coal	1	209	1,014		1
Hesperus #4	Hesperus Coal	3	167	2,317		1
King	King Coal	4	235	6,603		
Morning Star	F. Jr., N. & C. Zellitti	1	180	1,386		
Peacock	Peacock Coal	2	191	1,934		
Victory #3	Victory Coal	6	261	7,183		
TOTALS - 10		26	1,689	27,748	-	2
LAS ANIMAS						
Aguilar-Imperial	Montoya Coal	4	130	2,030		
Allen	C. F. & I. Corporation	379	236	749,542		4
Baldy #2	Baldy Coal	2	109	691		
Berwind Canyon	Berwind Coal	2	164	1,374		
Bisulco	Bisulco Mine Partners	2	39	242		
Bowman's	Bowman Coal	2	99	267		
Brodhead #4-A	Brodhead Coal	2	229	1,553		1
Delagua #4	Sonchar Coal	7	110	4,985		
Engleville	Guadagnoli Brothers	2	237	2,407		
Grey Creek #4	Grey Creek Coal	3	131	1,200		
Hastings #3	Maschio Coal	4	280	4,327		
Martinez	Albert Martinez	1	35	84		
Peacock	Peacock Coal	3	198	3,367		
Pete's	Pete Garcia	1	56	77		
Prosperity #2	Pete Pantazes	3	185	808		
Starkville #4	A. Iuppa & Son Coal	3	208	2,984		
TOTALS - 16		420	2,446	775,938	-	5

<u>MESA</u>						
Blue Flame	W. Barstow, A. Aul, P. Peterson	3	161	4,572		4
Cameo	Kerr Coal	26	226	63,882		
Coal Canyon Strip	Coal Canyon, Inc.	2	122	5,609		
Gearhart	Homer B. Phillips	5	86	2,629		
Go-Boy	Rudolph & Alta Fontanari	2	8	15		
Hunter	B. A. & W. B. Nichols	2	29	209		
McGinley	Eagle Head Coal	3	135	1,796		
Roadside (Supancic)	Supancic Coal	2	89	607		
TOTALS - 8		45	856	79,319	-	4
<u>MOFFAT</u>						
Red Wing	Colowyo Coal	29	137	103,129		4
Wise Hill #3	Silengo Coal	5	253	55,169		
TOTALS - 2		34	390	158,298	-	4
<u>MONTROSE</u>						
Navajo Strip	Edna Coal (8½ mo.)	11	196	78,294		
" (Nucla)	Peabody Coal (3½ mo.)					
TOTALS - 1		11	196	78,294	-	-
<u>PITKIN</u>						
Dutch Creek	Mid-Continent Coal & Coke	67	243	387,635		6
Thompson Creek #1	Thompson Creek C. & C. Corp.	24	215	31,579		3
Thompson Creek #2	Thompson Creek C. & C. Corp.	21	215	30,786		3
Thompson Creek #3	Thompson Creek C. & C. Corp.	33	215	49,252		5
TOTALS - 4		145	888	499,252	-	17
<u>RIO BLANCO</u>						
Rienau	Jenkins & Mathis Coal	3	217	3,792		1
White River	Staley-Gordon Coal, Inc.	3	159	2,795		
TOTALS - 2		6	376	6,587	-	1



COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
ROUTE						
Apex (Clsd.)	Sullivan Coal	4	6	46		
Babson	Hayden Coal	3	79	1,060		
Cardinal	Dry Creek Coal	15	168	44,301	1	4
Edna Strip	Pittsburg & Midway C. Mng.	57	135	428,045		1
Energy Strip	Energy Coal	25	255	309,618		
Johnnie's	John Mathews	2	91	342		
Keystone	Routt Mining Corp.	5	154	3,353		
Sun	Sun Coal	1	50	50		
TOTALS - 8		112	938	786,815	1	5
WELD						
Boulder Valley #3	Boulder Valley Coal	39	213	113,604		5
Eagle	Imperial Coal	61	196	234,936		1
Imperial	Imperial Coal	18	104	42,073		1
Lincoln	Clayton Coal	37	146	110,530		1
Sterling	McNeil Coal	26	194	72,679		
Washington	Clayton Coal	51	204	147,210		3
TOTALS - 6		232	1,057	721,032	-	11
GRAND TOTALS -						
104 Mines		1,393	16,844	3,707,440	1	70

# COAL PRODUCTION FROM 1864 THROUGH 1963

<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>
1864	500	1898	4,174,037	1932	6,616,525
1865	1,200	1899	4,826,939	1933	5,284,872
1866	6,400	1900	5,495,734	1934	5,251,003
1867	17,000	1901	6,021,405	1935	5,953,601
1868	10,500	1902	7,522,923	1936	6,868,801
1869	8,000	1903	7,775,302	1937	7,222,092
1870	4,500	1904	6,776,551	1938	5,730,291
1871	15,600	1905	8,989,631	1939	6,002,125
1872	68,540	1906	10,308,421	1940	6,673,359
1873	69,997	1907	10,965,640	1941	7,008,037
1874	77,372	1908	9,773,007	1942	8,131,764
1875	95,838	1909	10,722,490	1943	8,372,683
1876	117,666	1910	12,104,887	1944	8,202,401
1877	160,000	1911	10,197,595	1945	7,656,612
1878	200,630	1912	11,016,948	1946	5,928,823
1879	322,732	1913	9,268,939	1947	6,381,016
1880	375,000	1914	8,201,423	1948	5,682,512
1881	706,744	1915	8,715,397	1949	4,578,170
1882	1,161,479	1916	10,522,185	1950	4,274,887
1883	1,220,593	1917	12,515,305	1951	4,111,945
1884	1,130,024	1918	12,658,055	1952	3,643,523
1885	1,398,796	1919	10,406,543	1953	3,598,867
1886	1,436,211	1920	12,514,693	1954	2,922,365
1887	1,791,735	1921	9,141,947	1955	3,366,490
1888	2,185,477	1922	10,003,610	1956	3,303,661
1889	2,400,629	1923	10,336,735	1957	3,324,787
1890	3,075,781	1924	10,501,088	1958	2,972,191
1891	3,512,632	1925	10,440,387	1959	3,293,686
1892	3,771,234	1926	10,616,760	1960	3,624,572
1893	3,947,056	1927	9,781,580	1961	3,700,692
1894	3,021,028	1928	9,921,585	1962	3,392,570
1895	3,339,495	1929	9,934,064	1963	3,707,440
1896	3,371,633	1930	8,238,094		
1897	3,565,660	1931	6,604,063		

# COAL SHIPMENT AND DISPOSAL

COUNTY	RAILROAD	TRUCK	POWER & HEAT	OUT OF STATE	CHEM. TREATED
Delta	6,390	28,587	66	1,184	11,408
El Paso	-	1,207	-	-	500
Fremont	5,509	316,815	63	5,404	6,560
Garfield	-	8,550	-	-	2,150
Gunnison	118,499	44,509	230	110,338	72,694
Huerfano	3,209	40,523	-	9,891	9,580
La Plata	7,183	20,555	10	600	3,500
Las Animas	748,600	26,364	974	2,567	200
Mesa	-	15,427	*63,892	-	218
Moffat	145,258	13,040	-	-	53,837
Montrose	-	78,294	-	-	-
Pitkin	499,252	-	-	111,617	-
Rio Blanco	-	6,577	10	1,500	4,844
Routt	747,131	39,649	35	47,764	67,828
Weld	473,540	241,944	5,548	-	15,811
TOTALS	2,754,571	882,041	70,828	290,865	249,130

\*Public Service Power Plant from Cameo, by conveyor - 63,882 Tons

SIZES, GRADES, BY COUNTY

MINE RUN	LUMP	EGG	OTHER GRADES	NUT	PEA	SLACK
2,027	9,470	-	1,044	1,800	-	20,702
1,207	-	-	-	-	-	-
101,387	28,346	-	10,508	10,544	11,217	160,385
7	1,345	-	-	-	208	6,990
65,135	19,695	-	212	4,511	-	73,685
-	6,007	7,822	102	2,555	4,141	23,105
15,172	3,703	13	850	214	3,054	4,742
3,239	4,391	-	889	-	749,538	17,881
5,611	1,986	-	9	559	2	71,152
55,169	10,934	-	-	17,338	-	74,857
78,294	-	-	-	-	-	-
499,252	-	-	-	-	-	-
-	650	-	-	527	-	5,410
314,423	26,092	-	28,611	8,776	56,577	352,336
-	42,542	78,793	-	1,545	11,548	586,604
1,140,923	155,161	86,628	42,225	48,369	836,285	1,397,849

# MECHANICAL LOADING

COUNTY	Shaker Type	MECHANICAL LOADERS								Small Portable Conveyors	TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES  (None or very little hand labor)
		Chain Conveyors		Mainline			Mobile		Power Shovel		
		Short Face	Room Length	Belt	Long Wall	Chain	Track	Caterpillar			
Delta	5	-	1	-	-	-	2	4	-	1	27,420
El Paso	-	-	-	-	-	-	-	-	-	-	-
Fremont	16	-	5	-	1	-	1	16	-	2	244,671
Garfield	-	1	-	-	-	1	-	-	-	1	-
Gunnison	7	-	-	3	-	-	-	12	-	-	159,826
Huerfano	10	-	3	-	-	1	-	-	-	-	27,444
La Plata	4	-	-	1	-	-	-	2	-	-	1,000
Las Animas	2	-	-	12	-	-	-	11	-	-	2,030
Mesa	17	-	-	-	-	-	-	1	1	1	69,455
Moffat	-	-	-	-	-	-	-	4	-	-	103,129
Montrose	-	-	-	-	-	-	-	-	-	-	-
Pitkin	22	4	4	6	-	-	-	3	-	-	-
Rio Blanco	2	-	-	-	-	-	-	3	-	-	6,587
Routt	6	-	-	2	-	-	-	4	-	-	48,714
Weld	3	-	-	2	-	-	-	12	-	1	2,995
TOTALS	94	5	13	26	1	2	3	72	1	6	693,271

COLORADO - 1963

TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES	MINING MACHINERY						TOTAL TONNAGE
	Undercutting	Electric Shearing	Combination Undercutting and Electric Shearing	Electric Drills	Compressed Air Drills	Continuous Miners	
7,123	8	-	2	12	-	-	35,043
-	-	-	-	-	-	-	1,207
3,921	31	-	1	32	-	2	322,387
2,530	-	-	-	9	-	-	8,550
-	22	-	1	26	5	-	163,238
13,017	25	-	-	15	-	-	43,732
16,995	16	-	-	13	1	-	27,748
5,252	5	-	5	3	12	7	775,938
2,629	21	-	-	17	-	-	79,319
-	5	-	-	10	-	1	158,298
-	-	-	-	-	-	-	78,294
111,617	-	-	-	29	-	3	499,252
-	4	-	1	2	-	-	6,587
96	11	-	1	17	-	-	786,815
-	14	1	1	36	-	12	721,032
163,180	162	1	12	221	18	25	3,707,440



## FATAL ACCIDENTS

Date	Name	Mine	County	Cause	Occupation	Age	Exp.
6-21	Robert Holiday	Cardinal	Routt	Haulage	Shuttle car Operator	36	15

## FOUR YEAR COMPARISON

NON-FATALS				Causes of Injury	FATALS			
1960	1961	1962	1963		1960	1961	1962	1963
15	11	18	16	Falls of roof	1	1	2	
8	7	2	2	Fall of face or rib				
6	13	2	3	Falling objects				
9	7	4	6	Falls of persons				
13	17	11	12	Handling materials				
5	1	3	3	Hand tools				
3	1		2	Striking vs. objects				
12	2	15	13	Haulage	1	2	1	1
	1		4	Explosion of gas				
1	1			Explosives				
	2	1		Electricity				
4	6	13	8	Machinery		2		
	7	2	1	Jack pipes				
1				R. R. cars				
1		3		Others				
78	76	74	70	Totals	2	5	3	1

## ACCIDENT STATISTICS

	Fatalities		Non-Fatals	
	1962	1963	1962	1963
Fatalities	3	1		
Non-Fatals/Compensable			74	70
Per 1,000 employed	1.88	0.718	46.42	50.25
Men employed per injury	531	1,393	21.54	19.90
Tonnage per injury	1,130,857	3,707,440	45,846	52,963
Per million tons	.884	.269	2.18	1.88
(Corrected)				

Dependents:	Widows	3	1
	Children	4	5



## Successful Candidates in Examination for Coal Mine Officials

November 2, 1963

<u>Mine Foreman</u>	<u>Fire Boss</u>	<u>Additional rating after Fire Boss Experience</u>
Bear, Charles	Alvidrez, Casey, Jr.	Mine Foreman
Carestia, Tony	Beacco, Dominic	Mine Foreman
Robertson, John, Jr.	Bear, William A.	Mine Foreman
	Cerise, Edward J.	Assistant Mine Foreman
	Ewing, Glenn H.	Mine Foreman
	Javernick, John A.	Mine Foreman
	Rocchio, Nickie, Jr.	
	Smith, James M.	Mine Foreman

### Strip Pit Mine Foreman

Archer, Bryan, Jr.    Hold - First Aid  
Freed, W. Webster  
Lake, Joseph, Jr.    Hold - First Aid and Colorado residence  
Nelson, John  
Quarcelino, Nate  
Rocchio, Nick, Jr.  
Shelnutt, Thomas E.  
Silengo, Charles L.  
Thomas, Harold

### BOARD OF EXAMINERS

Thomas Allen, Chief Inspector  
Niles E. Grosvenor, E. M., Secretary  
Frank Kolar, Jr.  
Mathew J. Mlakar  
Robert L. Plum - Appointed April 24, 1963

COAL PRODUCTION AND VALUES BY COUNTY FOR 1963  
COKING, BITUMINOUS & SUB-BITUMINOUS COALS

<u>COUNTY</u>	<u>TONNAGE</u>	<u>VALUATION</u>
Delta	35,043	\$ 167,197.26
El Paso	1,207	5,190.10
Fremont	322,387	1,556,820.04
Garfield	8,550	40,289.62
Gunnison	163,238	1,039,923.72
Huerfano	43,732	220,409.28
La Plata	27,748	139,849.92
Las Animas	775,938	7,171,235.22
Mesa	79,319	399,318.58
Moffat	158,298	797,821.92
Montrose	78,294	394,601.76
Pitkin	499,252	5,083,360.98
Rio Blanco	6,587	33,198.48
Routt	786,815	3,965,547.60
Weld	721,032	<u>3,100,437.60</u>

GRAND TOTAL OF STATE \$24,115,202.08

Valuation figures from the Department of Natural Resources of the United States Bureau of Mines.



